

INTERNATIONAL®

Free-Flow Packaging International, Inc.

MINI PAK'R™

Air Cushion Machine

USER MANUAL

www.fpintl.com



Inventing the Future of Packaging

REVISION 3.4

6/2007



This product is in conformity with the essential requirements of European Directive 1999/5/EEC and the following standards: EN 300-330-2 V1.1.1, EN 61000-6-3(2001) + A11 (2004), EN 6100-6-2(2001), EN61000-3-2 (2000), EN61000-3-3 (1995), EN 60204-1 (1997), EN 60950-a (2002), EN 1050 (1997), EN 292-1 (1991), and EN 292-2 (2002).



This product is compliant with Directive 2002/95/EC, Restriction of Hazardous Substances.



Disposal: Power tools, accessories and packaging should be sorted for environmental-friendly recycling. Only for EC countries: Do not dispose of power tools into household waste! According to the European Directive 2002/96/EC on waste electrical and electronic equipment and its incorporation into national law, products that are no longer suitable for use must be separately collected and sent for recovery in an environmentally-friendly manner

Official agency certifications, declaration documents, and RoHS position statements are available upon request or by visiting our website at www.fpintl.com.



Congratulations on your purchase of the **MINI PAK'R™ Machine!** You now own the world's only retail, on-demand Air Cushion Machine! You can now produce a wide variety of air cushions just by loading a roll of film and pressing the Start button!

The **MINI PAK'R Machine:**



- ✓ Saves valuable space - eliminates the need to store traditional bubble and other packaging materials.
- ✓ Fits anywhere - its small footprint means it's perfect for pack-and-ship stores or small packing operations. Wall mount accessory is also available.
- ✓ Is versatile and easy to operate - RFID technology automatically adjusts MINI PAK'R Machine settings, including air fill level and seal temperature, based on the film roll you install.
- ✓ Is reliable - the MINI PAK'R Machine is virtually maintenance free.
- ✓ Is innovative - **combines the best of our NOVUS® and CELL-O® air cushion systems in one durable machine.**

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Box Contents

As you unpack the box, you will find the following:

- **MINI PAK'R™** Air Cushion Machine
- Power Cord (USA or EUR version, depending on country of purchase)
- Spare parts: Two (2) Teflon Seal Belts
- Quick Start Guide
- User Manual
- [Warranty Registration Card](#): Please complete this card and return to FP International within 4 weeks of date of purchase.



 <p>USA</p>	 <p>USER MANUAL</p>	 <p>QUICK START GUIDE</p>
 <p>EUROPE</p>	 <p>WARRANTY REGISTRATION CARD</p>	 <p>SPARE SEAL BELTS</p>

Technical Data

The MINI PAK'R Machine creates air cushions on demand for use as cushioning, protective wrap, and general transport packaging. Strict compliance with the safety instructions are required to ensure personal safety (See Safety Instructions in this manual).

Specification	
Film Roll Product	preconfigured NOVUS and CELL-O film for MINI PAK'R Machine
Production Rate	7.5 meters per minute (25 ft./minute)
Power Rating	Model # MMP01MNPKR - 120V 3.15A Model # MMP02MNPKR - 230V 1.6A
Machine Dimensions	33cm (13") wide X 36cm (14") long X 28cm (11") tall
Recommended Power Fuse	5mm X 20mm, Slow-Blow: 110V (2x) 3.15A, 230V (2x) 1.6A
Maximum Roll Diameter	Up to 175mm (6.9")
Width of Roll	Up to 400mm
Machine Weight	6 kg (13.5 lbs.)
Roll Weights	Cello - 3.6 kg (8 lbs), NOVUS - 5.9 kg (13 lbs.)

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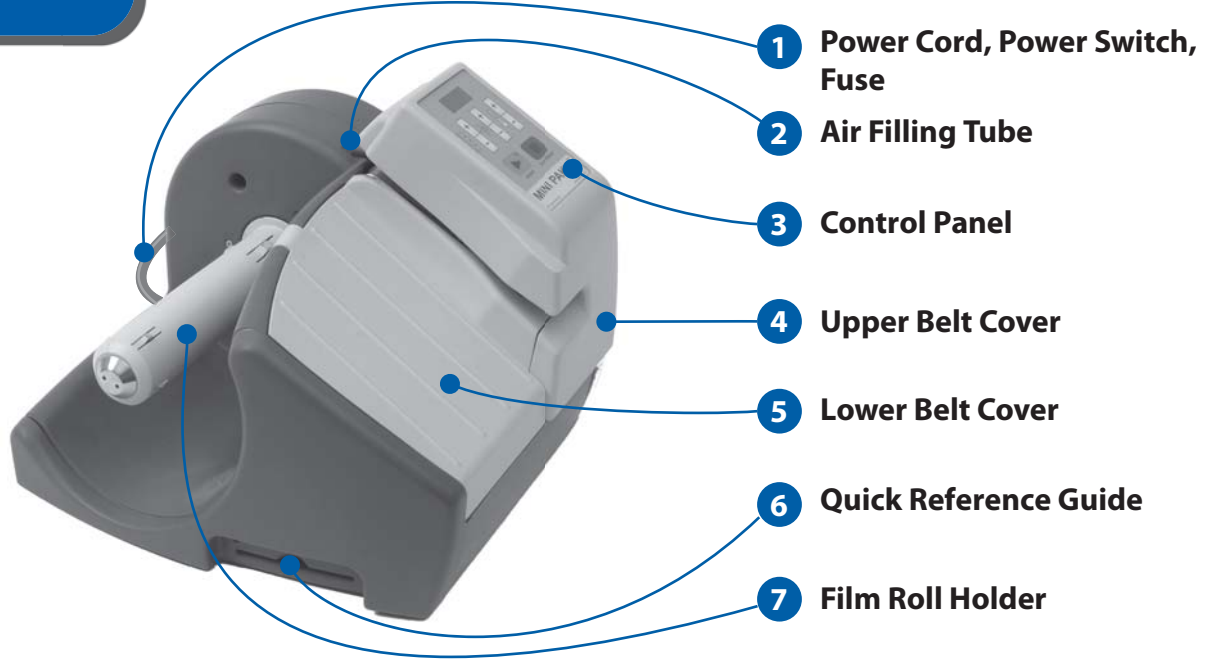
Safety Instructions



To ensure the personal safety of operating personnel and/or users of this machine, the instructions below must be followed at all times.

1. Avoid all contact with internal electrical components.
2. In case of emergency, press the red STOP button. The machine will stop. Once a fault has been corrected, the machine can be restarted following the directions below.
3. If the machine is not used for any length of time, the Power Switch must be turned OFF at the rear of the machine.
4. During Installation and Maintenance, the Power Switch must be in the OFF position, with the Power Cord disconnected.
5. All safety and protection measures must be fitted and adequately maintained in accordance with local regulations.
6. Only trained and qualified service personnel may maintain any electrical and or mechanical part of the machine.
7. FP International machines are supplied preset and fully tested. Any loss arising from production downtime and failure of the machine caused by incorrect operation, poor or faulty maintenance, or the use of materials other than those provided by FP International shall void the terms of the warranty.
8. During machine operation, **NEVER** touch the film at its point of entry into the machine. Do not attempt to guide the film into the machine. Injury may result.
9. Under no circumstances may any installed safety feature be overridden.
10. After loading the Film Roll, the machine will automatically adjust to the right seal temperature for the film. **Any contact with the heating element must be avoided (or any part in direct contact with the heating element) since it may remain hot for several minutes after the machine has been switched OFF.**

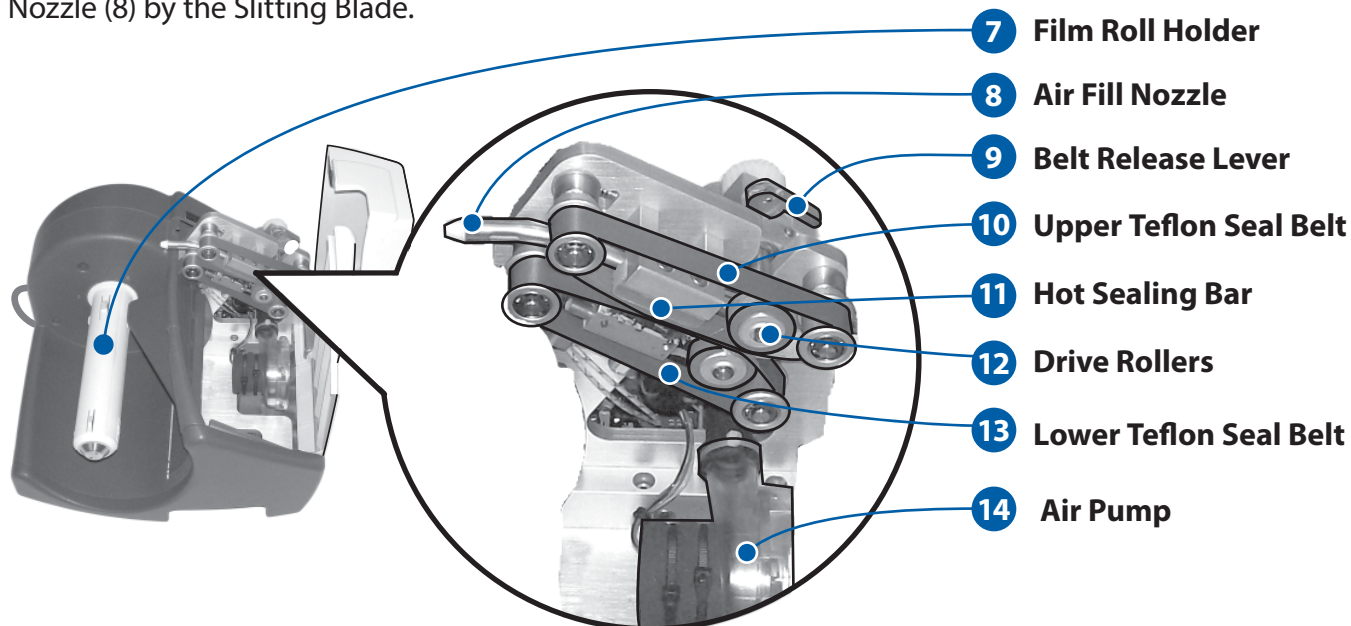
MINI-PAK'R Parts



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How the MINI PAK'R Machine Works

- Load any approved FP International Film Roll onto Film Roll Holder (7).
- The right side of the Film is guided onto the Air Fill Nozzle (8) and pulled through the machine.
- The Seal Belts (10 and 13) and Driver Rollers (12) advance the film.
- Air is injected by the Air Pump (14) through the Air Fill Nozzle (8), creating Air Cushions.
- The inflated Air Cushions are sealed by the Hot Sealing Bar (11).
- The right edge of the film is then cut from the Air Fill Nozzle (8) by the Slitting Blade.

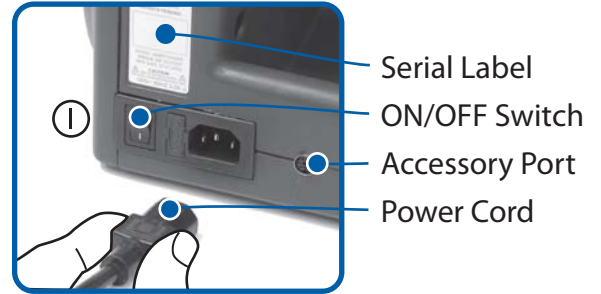


Loading a Film Roll

3 STEPS

STEP 1: Connecting Power

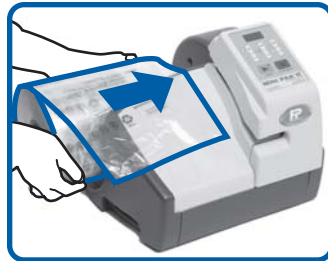
- Insert provided Power Cord into the rear of the machine.
- Plug Power Cord into a dedicated, grounded outlet.
- Switch machine power ON (I).



Rear of MINI PAK'R Machine

STEP 2: Loading a Film Roll

- Push Film Roll onto Film Roll Holder (with the film feeding off the top of the roll as shown) until it seats firmly.



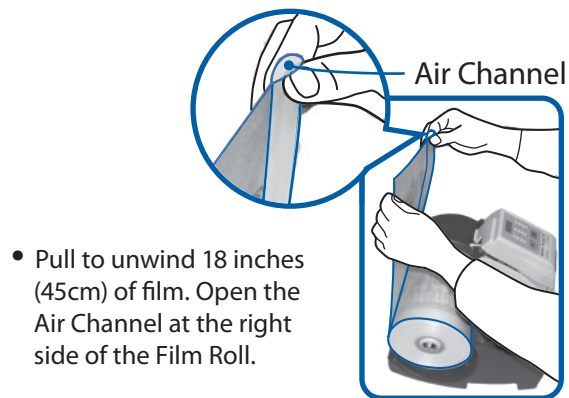
200mm wide film



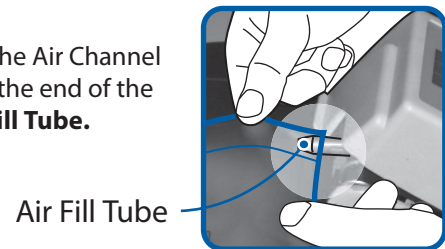
400mm wide film

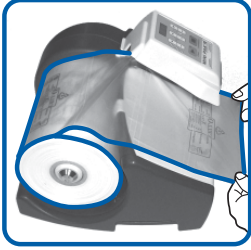
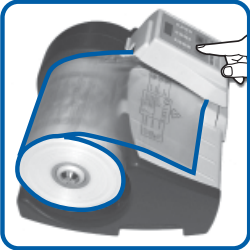


STEP 3: Threading the Film



- Slip the Air Channel over the end of the **Air Fill Tube**.



Advance Film Manually		OR	Advance Film Automatically	
Pull the film down the Air Fill Tube and through the Sealing Mechanism.			Pull the film down the Air Fill Tube until it stops, then press and hold the Start Button to advance the film automatically.	
				

Basic Operation

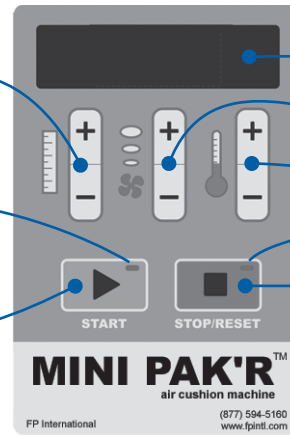
Set **Length Control** per use (measured in feet or meters, depending on country of purchase)

Green LED

- Blinks while warming up
- Solid when ready.

Start Button

- Warm up MINI PAK'R Machine
- Start production of Air Cushions



Display

Set Air Fill Level

Set Seal Temperature

Red LED

Stop Button

- Stop Production
- Reset MINI PAK'R machine after error is corrected

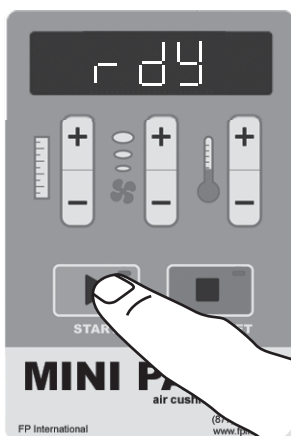


Initially, the display will show "sty" (Standby). Once the film is loaded, the MINI PAK'R Machine will detect the roll. The **green LED** on the **Start Button** will begin flashing. A flashing **green LED** indicates that the Machine is warming to the correct seal temperature. The Control Panel will display seal temperature while adjusting.

When the correct temperature is reached, the **green LED** will remain solid green. The display will show "rdy" (Ready). The MINI PAK'R Machine is ready for production. Press the **Start Button** to begin making Air Cushions.



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Start Production

When the [green LED](#) remains steady green, and the Display reads “rdy” (Ready), press and release the [Start Button](#) again to begin production. The Air Pump will force air into the film, and after a few seconds the Drive Motor will advance the inflated Air Cushions through the Seal Bar and past the Slitting Blade. Air Cushions will emerge at the front of the MINI PAK’R Machine.

Press the [Stop Button](#) to stop production. The MINI PAK’R Machine is factory set in continuous mode, and will create Air Cushions until the Film Roll is empty. To create a fixed length of Air Cushions, use the Length Control buttons (next page).

Standby mode

If the MINI PAK’R Machine is not used for 15 minutes, it will enter “Standby” mode. The Display will read “Sty”. To resume Air Cushion production, press the [Reset Button](#). The Seal Bar will begin heating. Press the [Start Button](#) again when the green LED remains steady green and the Display reads “rdy” to resume Air Cushion production.



Machine Settings

Changing MINI PAK'R Machine Settings

The MINI PAK'R Machine automatically chooses the correct air and temperature settings for the Film Roll you have loaded. You do not need to adjust Machine settings manually. However, if the automatic settings are not optimal, the Control Panel allows you to change the following settings.

Length Control

Length Control sets the length of Air Cushions to be produced each time you press the **Start Button**. You have 2 options:



Continuous Mode

Length Control at the factory is preset at continuous production. Press the **Start Button** and the machine will run the film until the Film Roll is empty or the **Stop Button** is pressed. The Machine will display the length of Air Cushions produced.

Fixed Length

If you want to produce a fixed length of Air Cushions, press the **+ Button** until the desired length is displayed. The Machine will count down the length of Air Cushions yet to produce.

To change from Fixed to Continuous mode, press the **- Button** until the Display shows " _ _ _ "

NOTE on Length Control Display

Model # MMP01MNPKR (120V, 3.15A, USA) will display length units in **FEET**.

Model # MMP02MNPKR (230V, 1.6A, EUR) will display length units in **METERS**.

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Air Control

Air Control regulates the amount of air in the Air Cushions.

If you want fuller Air Cushions, press the **+ Button**.

If you want less full Air Cushions, press the **- Button**.



Temperature Control

The Temperature Control regulates the temperature of the Seal Bar that fuses the front and back film sheets together.

If the Air Cushions become flat, and upon inspection the Heat Seals are leaking air, increase the Temperature Control by pressing the **+ Button**.

If the Air Cushions become flat because the seals are burned through at the seal line as evidenced by holes in the Air Cushions, decrease the Temperature Control by pressing the **- Button**.



NOTE: After changing the Temperature Control setting, the MINI PAK'R Machine may take a few moments to establish the new seal temperature. During heat-up or cool down, green LED will flash until the correct temperature has been achieved.

If Air Cushions continue to show poor seals and produce flat cushions, contact FPI for assistance.

Maintaining the MINI-PAK'R Machine



Risk of Burn!
Before opening
Covers, turn Power
OFF, unplug the
Power Cord, and wait
10 minutes for Seal
Bar to cool

Replacing Blades

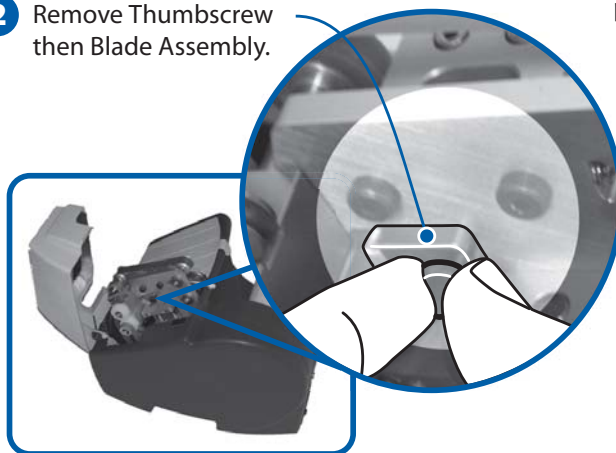


Replace the Slitting Blade:

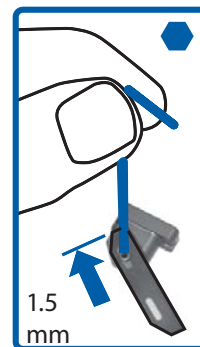
- If the film jams frequently.
- After 50 Film Rolls have been processed.
- If the Blade is not cutting the film properly or is making a very rough cut.

1 Turn Power OFF, unplug Power Cord, then wait 10 minutes for Seal Bar to cool. Open Belt Cover with Slotted or Phillips Screwdriver.

2 Remove Thumbscrew then Blade Assembly.

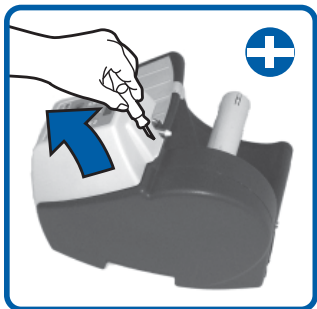


3 Remove Blade with 1.5mm Hex Wrench. Flip Blade over or Replace Blade if both sides of Blade have been used. Reinstall Blade Assembly.



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Replacing Seal Belts

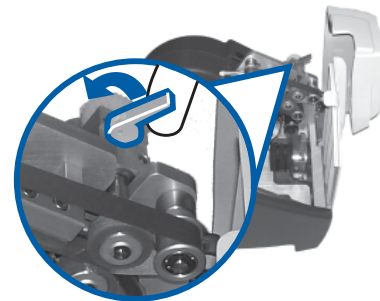


Replace the **Seal Belts** when:

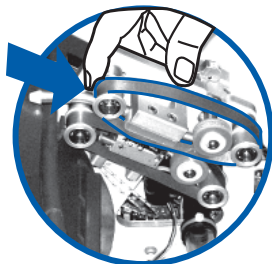
- The film jams frequently.
- The film does not advance with drive motor running.
- The machine is producing very poor seals even after adjustment of the seal temperature.

1 Turn Power OFF, unplug **Power Cord**, then wait 10 minutes for Seal Bar to cool. Open **Belt Cover** with Slotted or Phillips Screwdriver.

2 Lift **Belt Release Lever** to loosen **Seal Belts**.



3 Push spring-loaded rollers toward front of Machine to loosen either **Seal Belt**. Remove **Seal Belt** and replace it. **Replace both Seal Belts.**



4 Tighten **Seal Belts** by locking **Belt Release Lever** in place.



Routine Maintenance

Weekly Maintenance: If necessary, clean the Seal Belts and the Drive Rollers. Warm water and mild detergent are recommended.

Monthly Maintenance: Check the entire MINI PAK'R Machine for damage. Replace worn or damaged parts, if necessary, and/or contact your distributor.

Display Error Codes

Error Codes

If the Display shows an Error Code, and the red LED flashes, consult the chart below to determine the cause. Clear the problem as described below then press the [STOP/RESET Button](#) to resume normal operation.

Display Code	Error	Action
E 1	Cover Open	Make sure covers are closed.
E 2	Jam/end of roll	In case of jam, open Belt Cover and remove jammed film carefully.
E 3	Temp. too high	Contact your distributor or FP International for assistance.
E 4	Temp. too low	Contact your distributor or FP International for assistance.
E 5	Temp not rising	Contact your distributor or FP International for assistance.
E 6	No roll detected	Press STOP/RESET. This may clear the error. If not, Display will show "Sty" (Standby state). Advance the film slowly at the front of the Machine so the Film Roll rotates. The display should change to show the seal temperature, and then "rdy" (Ready state). If the error can't be cleared, contact your distributor or FP International for assistance.

Troubleshooting

Trouble	Possible Problem	Solution
No power to MINI PAK'R machine	Power Cord unplugged Circuit Breaker OFF Power Switch OFF Fuse is blown Belt Cover(s) open	Plug Power Cord into MINI PAK'R Machine and outlet Turn Circuit Breaker ON at Electrical Panel Turn Power Switch ON Replace Fuse Tighten Belt Cover Screw with Screwdriver
Film won't advance	Film Roll installed backwards Non-FPI film installed	Turn Film Roll around (page 8) Install FPI Film Roll
Air Cushions do not hold air	Air Fill Tube not inside film Air Pump not working Seals leaking Too much air fill	Reload film onto Air Fill Tube (page 9) Contact FPI for assistance Adjust seal temperature (page 13) Reduce air fill (page 13)
Film jams frequently	Blade is dull Drive Belts are worn	Replace or Reverse Blade (page 14) Replace both Drive Belts (page 15)
Machine won't stop automatically	Length Control set to continuous	Press + or - Length Control Buttons to set desired length of Air Cushion production (page 12)

Warranty Notice

MINI PAK'R™ Air Cushion Machine, Accessories, and Customer Kits Limited Warranty

FP International ("FPI") warrants the MINI PAK'R Air Cushion Machine, accessories, and customer kits against defects in material and workmanship for a period of one year from the date you purchased that product, as stated on your sales or delivery receipt. This warranty applies only if you are the original end-user purchaser and is not transferable. You will be asked to provide proof of purchase as a condition of receiving warranty service. For MINI PAK'R Machines, accessories, and customer kits under this warranty, FPI will, at its sole option, repair or replace any defective part or product with a functionally equivalent new or factory-reconditioned part or product. Replacement parts and products are warranted to be free from defects in material and workmanship for 90 days or for the remainder of the applicable warranty period for the parts or products they are replacing or in which they are installed, whichever is longer. FPI will have no obligation to repair or replace any parts or products until you return the defective product to FPI. You will be responsible for all transportation risks and costs in connection with this warranty service.

Exclusions

This Limited Warranty does not apply to (1) expendable or consumable parts, including injector blades and Teflon seal belts and tape; (2) normal wear from regular use of the MINI PAK'R Machine; (3) any product with the serial number removed; (4) any MINI PAK'R Machine that has been operated with non-FPI film; or (5) any product if damaged or defective due to (a) accident, misuse, abuse, contamination, improper or inadequate maintenance or calibration or other external causes; (b) software, interfacing, parts or supplies not supplied by FPI; (c) loss or damage in transit; or (d) modification or service by other than FPI or an FPI-authorized service provider.

Non-Warranty Repairs

For service that FPI performs that is not covered under this Limited Warranty, FPI will charge its standard time and materials rates. Customer will be responsible for all transportation risks and costs in connection with this service.

Limitations of Warranty/Local Laws

EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, FPI MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. FPI EXPRESSLY DISCLAIMS ALL WARRANTIES AND CONDITIONS NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED IN DURATION TO THE APPLICABLE WARRANTY PERIOD. Some states or countries do not allow a limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages for consumer products, or of a consumer's statutory rights. In such states or countries, some exclusions or limitations of this Limited Warranty may not apply to you. This Limited Warranty is applicable in all countries and may be enforced in any country where FPI or its authorized service providers offer warranty service.








Contact and Ordering Info

For Sales and Service

United States and Canada: 888 - MINIPKR (888-646-4757)

International: 00800-FREEFLOW (00800-37333569)

or visit us at www.fpintl.com

 <p>Cell-O® EZ Film (Available in USA only) Large void fill 8" x 8" 200mm (8") wide roll Item code: FMPEZL2088</p>	 <p>NOVUS Quilt-Air Small® Interweaving and wrapping 400mm (16") wide roll Item code: FMPQSL8650</p>
 <p>Cell-O® EZ Film (Available in USA only) Small void fill 4" x 8" 200mm (8") wide roll Item code: FMPEZL2048</p>	 <p>NOVUS Quilt-Air Large® Void fill and wrapping 400mm (16") wide roll Item code: FMPQLL8650</p>
 <p>Cell-O® EZ Extra (Available in EU only) 130 mm X 200 mm 200mm wide roll Item code: 3127101</p>	 <p>NOVUS Supertube® Void fill and wrapping 400mm (16") wide roll Item code: FMPSTL8650</p>
	 <p>NOVUS Double Cushion® Large void fill & Blocking and bracing 400mm (16") wide roll Item code: FMPDCL8650</p>

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MINI PAK'R, NOVUS and **CELL-O** are trademarks of FP International. The MINI PAK'R Machine has patents pending. NOVUS film is protected by one or more of the following patents: U.S. 6,761,960, U.S. 6,565,946, U.S. Design 480,711, U.S. Design 512,311, U.S. Design 513,182, U.S. Design 480,971, U.S. Design 480,646; Canadian IDR 102,282, IDR 107,374 and IDR 107,375; EP15656-0001, EP15656-0002, EP15656-0003, EP15656-0004, EP15656-0005. Other patents pending for both NOVUS and CELL-O film.

Important notice:

All safety instructions described in this manual must be carefully followed at all times when operating the MINI PAK'R machine to avoid personal injury or danger to operators, and to avoid damage to any materials. Only FP International's NOVUS or CELL-O films may be used with the MINI PAK'R Machine.

